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Clean Version

Method and Device for Producing Workpieces by Means of
Internal High Pressure Forming

[0001] This application is a national phase application of International application PCT/EP2004/010106 filed September 10, 2004 and claims the priority of German application No. 103 50 154.1, filed October 28, 2003, the disclosure of which are expressly incorporated by reference herein.

BACKGROUND AND SUMMARY OF THE INVENTION

[0002] The present invention relates to a method and a device for simultaneously producing at least two workpieces, separated from one another, by means of internal high pressure forming or hydroforming.

[0003] The internal high pressure forming process, also called hydroforming, is based on inserting a blank in the form of a hollow profile, for example a tube, into a forming tool, in sealing off the blank on both sides and in applying an internal high pressure to it in such a way that the blank nestles against a negative mold, at a distance from it, of the forming tool and thus assumes the contours of said mold. In this way, hollow bodies can be produced which on the one hand may have a complicated shape but on the other hand, at high strength, have a small wall thickness and thus a low weight. For reasons of economy, it is expedient to produce a plurality of workpieces simultaneously in one forming tool.